

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: ) Group Art Unit: TBA  
)  
Bruce Sullenger ) Examiner: TBA  
)  
Serial No. TBA )  
)  
Filed: September 25, 1998 )  
)  
For: ALTERATION OF SEQUENCE OF )  
TARGET MOLECULE BY RIBOZYME )  
CATALYZED TRANS-SPLICING )

JC525 U.S. PTO  
09/165514  
10/02/98

INFORMATION DISCLOSURE STATEMENT

Assistant Commissioner for Patents  
Washington, D.C. 20231

Sir:

Enclosed is Form PTO-1449 listing patents and publications to be made of record. Copies of patents and other publications are provided in parent application nos. 08/786,753, filed January 24, 1997, or 08/152,450, filed November 12, 1993.

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CERTIFICATE OF MAILING  
(37 C.F.R. §1.10)

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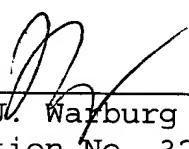
Elaine Rodriguez  
Name of Person Mailing Paper  
*Elaine Rodriguez*  
Signature of Person Mailing Paper

The listed references are not admitted to be prior art to the claimed invention.

At this time, no fee is believed due in connection with this Information Disclosure Statement, however, please charge Deposit Account No. 12-2475 for any deficiencies.

Respectfully submitted,

LYON & LYON LLP,



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LIST OF PATENTS AND OTHER ITEMS FOR APPLICANT'S  
INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

ATTY. DOCKET NO.

236/244

SERIAL NO.

TBA

APPLICANT:

Bruce Sullenger

FILING DATE:

September 1998

GROUP:

TBA

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE
	AA	4,987,017	01/22/91	Cech et al.			
	AB	5,641,673	06/24/97	Haseloff et al			
	AC	5,498,531	03/12/96	Jarell			
	AD	5,667,969	09/16/97	Sullenger et al			

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES NO
	AE	93/00833	05/05/93	WO/PCT			
	AF	90/01731	1990	EPO			
	AG	88/04300	06/16/88	WO/PCT (Cech et al.)			
	AH	92/13089	08/06/92	WO/PCT (Haseloff)			
	AI	92/13090	08/06/92	WO/PCT			
	AJ	92/07065	08/06/92	WO/PCT (Eckstein)			

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

	AK	Komatsu et al., "Cross-litigation and Exchange Reactions Catalyzed by Hairpin Ribozymes," <u>Nucleic Acids Res.</u> 21:185-190 (1993)
	AL	Friedman et al., "Expression of a Truncated Viral Trans-activator Selectively Impedes Lytic Infection by its Cognate Virus" <u>Nature</u> 335, p.452 (1988)
	AM	Flanagan and Cech, "Tetrahymena Ribozyme Catalyzes Trans-splicing of Model Oligoribonucleotide Substrates," <u>J. Cell. Biochem.</u> 12D, 4 April, New York, Pg. 28

EXAMINER:

DATE CONSIDERED:

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<b>FORM PTO-1449</b>  <b>LIST OF PATENTS AND OTHER ITEMS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT</b>  (Use several sheets if necessary)	<b>ATTY. DOCKET NO.</b> 236/244	<b>SERIAL NO.</b> TBA
	<b>APPLICANT:</b> Bruce Sullenger	
	<b>FILING DATE:</b> September , 1998	<b>GROUP:</b> TBA

	AN	Cech, "The Chemistry of Self-splicing RNA AND RNA Enzymes" <u>Science</u> 236,1532-1539 (1987)
	AO	Sullenger and Cech, "Ribozyme-mediated Repair of Defective mRNA by Targeted Trans-splicing" <u>Nature</u> 371,619-622 (1994)
	AP	Guthrie, "Messenger RNA Splicing in Yeast: Clues to Why the Spliceosome Is a Ribonucleoprotein" <u>Science</u> 253, p.257 (1991)
	AQ	Kim et al., "Three-dimensional Model of the Active Site of the Self-splicing Rna Precursor of Tetrahymena" <u>Proc. Nat. Acad. of Sci. USA</u> 84, p. 8788 (1987)
	AR	Haseloff et al., "Simple RNA Enzymes with a New and Highly Specific Endoribonuclease Activities" <u>Nature</u> 234, p.585 (1988)
	AS	Cech, "Ribozymes and their Medical Implications" <u>JAMA</u> 260, p.3030 (1988)
	AT	Jefferies et al., "A Catalytic 13-mer Ribozyme" <u>Nucl. Acid Res.</u> 17, p.1371 (1989)
	AU	Rossi et al., "Ribozymes as Anti-HIV-1 Therapeutic Agents: Principles, Applications, and Problems" <u>Aids Res. and Human Retroviruses</u> 8, p.183 (1992)
	AV	Hampel and Tritz, "RNA Catalytic Properties of the Minimum (-) sTRSV Sequence" <u>Biochem.</u> 28, p.4929 (1989)
	AW	Hampel et al., " 'Hairpin' Catalytic RNA Model:Evidence for Helices and Sequence Requirement for Substrate RNA" <u>Nucl. Acid. Res.</u> 18, p.299 (1990)
	AX	Perrotta and Been, "Cleavage of Oligoribonucleotides by a Ribozyme Derived from the Hepatitis ---Virus RNA Sequence" <u>Biochem.</u> 31, p.16 (1992)
	AY	Guerrier-Takada et al., "The RNA Moiety of Ribonuclease P is the Catalytic Subunit of the Enzyme" <u>Cell</u> 35, p.849 (1983)
	AZ	Inoue et al., "Intermolecular Exon Ligation of the Rna Precursor of Tetrahymena: Oligonucleotides Can Function as 5' Exons" <u>Cell</u> 43, p.849 (1983)
	BA	Bruzik and Maniatis, "Splicing Leader RNAs From Lower Eukaryotes are Trans-spliced in Mammalian Cells" <u>Nature</u> 360, p.692 (1992)
	BB	Cech et al., "In Vitro Splicing of the Ribosomal RNA Precursor of Tetrahymena: Involvement of a Guanosine Nucleotide in the Excision of the Intervening Sequence" <u>Cell</u> 27, p.487 (1981)
	BC	Kruger et al., "Self-splicing RNA: Autoexcision and Autocyclization of the Ribosomal RNA Intervening Sequence of Tetrahymena" <u>Cell</u> 31, p.147 (1982)
	BD	Rossi et al., "Controlled Targeted Intracellular Expression of Ribozymes: Progress and Problems" <u>TIBtech</u> vol. 13 (1995)

SD-87053.

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